

Listing of Claims:

1. (Currently Amended) A method of purifying air comprising withdrawing air from an enclosed space, passing the withdrawn air ~~over~~ through an ultraviolet radiation section, where one or more surfaces of the ultraviolet radiation section are coated with a non-volatile antimicrobial agent, through an ultraviolet radiation, and returning the thus irradiated air to the enclosed space.
2. (Original) A method according to claim 1, and comprising filtering the withdrawn air.
3. (Original) A method according to claim 1, and comprising causing turbulence to the air flow prior to passing the withdrawn air through ultraviolet radiation.
4. (Currently Amended) A method according to claim 1, wherein the antimicrobial agent comprises surfaces are coated with a quaternary amine in a silane.
5. (Cancelled)
6. (Currently Amended) Apparatus for purifying air comprising means (3) for withdrawing air from an enclosed space (1), ducting (4) for directing withdrawn air through a unit including an ultraviolet radiation section (5) for irradiating the withdrawn air and thence back to an air inlet (8) arranged to communicate with the enclosed space, the ~~unit~~ ultraviolet radiation section having at least one of its internal surfaces coated with a non-volatile antimicrobial agent.
7. (Original) Apparatus according to claim 6, and comprising a filter (6a) for filtering the withdrawn air.
8. (Previously Amended) Apparatus according to claim 6, and comprising a pre-sterilization section (6b).

9. (Currently Amended) Apparatus according to claim 7, wherein ~~the~~ an antimicrobial agent is coated on at least some of the internal surfaces of the filter (6a).
10. (Currently Amended) Apparatus according to claim 8, wherein ~~the~~ an antimicrobial agent is coated on at least some of the internal surfaces of the pre-sterilization section.
11. (Currently Amended) A method according to claim 1, wherein the antimicrobial agent comprises surfaces are coated with 3-(trimethoxysilyl)-propyl dimethyloctadecyl ammonium chloride.
12. (Currently Amended) An apparatus according to claim 6, wherein the antimicrobial agent comprises surfaces are coated with a quaternary amine group in a silane.
13. (Currently Amended) A method according to claim 6, wherein the antimicrobial agent comprises surfaces are coated with 3-(trimethoxysilyl)-propyl dimethyloctadecyl ammonium chloride.
14. (Currently amended) Apparatus for purifying air comprising components including a fan system, an air extraction vent, an air flow conditioning section, and an ultraviolet illumination section, said components being connected via ducting, where ~~at least one of~~ said conditioning section and one or more surfaces of said illumination section is coated with an antimicrobial agent.
15. (Previously added) The apparatus of claim 14, wherein the air flow conditioning section further comprises a filter.
16. (Previously added) The apparatus of claim 15, wherein the filter comprises activated charcoal, metal, or synthetic or natural fibers.

17. (Previously added) The apparatus of claim 14, wherein the air flow conditioning section further comprises a fixed, multi-bladed directional fan.
18. (Previously added) The apparatus of claim 14, wherein the air flow conditioning section further comprises fixed shaped or planar members positioned at an angle to the air flow.
19. (Currently amended) The apparatus of claim 14, wherein the ~~surfaces are coated with~~ antimicrobial agent is a quaternary amine group in a silane.
20. (Currently amended) The apparatus of claim 14, wherein the ~~surfaces are coated with~~ antimicrobial agent is 3-(trimethoxysilyl)-propyl dimethyloctadecyl ammonium chloride.